CREATIVE BIOMART®
Assay Kit

D-Lactate Colorimetric Assay Kit

Product Information

Cat.No. Kit-0291

Product Overview

D-Lactate Assay Kit (Colorimetric) is used for measuring D-lactate.

Description

D-Lactate production in mammals, mainly due to the glyoxalase pathway, is extremely low, with normal serum concentrations in the nano to micromolar range. Typically, elevated D-lactate levels which can rise to millimolar levels, are due to bacterial infection or short bowel syndrome in humans. Abnormally high concentrations of D-lactate are considered indicative of sepsis, ischemia or trauma. Due to slow metabolism and excretion, high D-lactate can cause acidosis and encephalopathy. The D-Lactate Assay Kit (Colorimetric) provides a fast, easy way to accurately measure D-lactate in a variety of biological samples. In the D-Lactate Assay Kit, D-lactate is specifically oxidized by D-lactate dehydrogenase and generates proportional color (λmax = 450 nm). The kit detects D-Lactate in samples such as serum, plasma, cells, culture and fermentation media. The useful concentration range in samples is 0.01 mM – 10 mM D-lactate.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store the kit at -20°C.

Kit Components

D-Lactate Assay Buffer 25 mlD-Lactate Enzyme Mix: lyophilized 1 vialD-Lactate Substrate Mix: lyophilized 1 vialD-Lactate Standard (100 mM) 100 µl

Detection method Colorimetric

Compatible Sample Types

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CREATIVE BIOMART®
Assay Kit

D-Lactate Colorimetric Assay Kit

Biological Fluid, Cell Culture Supernatant, Fermentation Medium, Plasma, Serum, Tissue Culture Supernatant, Urine

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